



PTO/SB/08a/b (08-03)

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete If Known	
				Application Number	09/872,151-Conf. #9156
				Filing Date	May 31, 2001
				First Named Inventor	Kyle M. Hanson
				Art Unit	1741
				Examiner Name	W. T. Leader
Sheet	1	of	1	Attorney Docket Number	291958158US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
DN		US-6,051,284	04-18-2000	Byrne et al.	
DN		US-6,678,055	01-13-2004	Du-Nour et al.	
DN		US-6,773,571	08-10-2004	Mayer et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
DN		JP-4311591	11-04-1992	Sumitomo Metal Ind. Ltd.		
		JP-5195183-A	08-03-1993	Mitsubishi Electric Corp		
		JP-6017291-A	01-25-1994	NEC Corp		
		JP-6073598-A	03-15-1994	Suganuma Keiichiro		
DN		JP-6224202-A	08-12-1994	Oki Electric Ind Co. Ltd.		
		JP-7113159-A	05-02-1995	Canon Inc.		
		JP-7197299-A	08-01-1995	Casio Computer Co. Ltd.		
		JP-11036096-A	02-09-1999	NEC Corp		
DN		JP-11080993-A	03-26-1999	Ebara Corp		

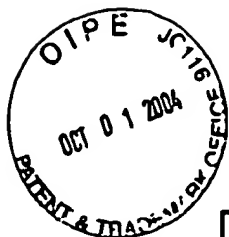
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
DN		PATENT ABSTRACT OF JAPAN, "Organic Compound and its Application," Publication No. 08-003153, Publication Date: January 9, 1996	
DN		PATENT ABSTRACT OF JAPAN, English Abstract Translation - Japanese Utility Model No. 2538705, Publication Date: August 25, 1992	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Donald R. Valentine	Date Considered	12/30/04
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		US-10/729,349		Kloeke	
		US-10/729,357		Kloeke	
		US-10/817,659		Wilson et al.	
DN		US-2001-0024611	09-27-2001	Daniel Woodruff	
		US-2001-0032788	10-25-2001	Daniel Woodruff	
		US-2001-0043856	11-22-2001	Daniel Woodruff	
		US-2002-0008036	01-24-2002	Hui Wang	
		US-2002-0046952	04-25-2002	Lyndon Graham	
		US-2002-0079215	06-27-2002	Wilson et al.	
DN		US-2002-0096508	07-25-2002	Weaver et al.	
		US-2002-0125141	09-12-2002	Gregory Wilson	
		US-2002-0139678	10-03-2002	Gregory Wilson	
		US-2003-0038035	02-27-2003	Gregory Wilson	
		US-2003-0062258	04-03-2003	Daniel Woodruff	
		US-2003-0070918	04-17-2003	Kyle Hanson	
DN		US-2003-0127337	07-10-2003	Kayle Hanson	
		US-2004-0031693	02-19-2004	Linlin Chen	
		US-2004-0055877	03-25-2004	Gregory Wilson	
		US-2004-0099533	05-27-2004	Gregory Wilson	
		US-3,309,263	03-14-1967	Grobe	
		US-3,616,284	10/1971	Bodmer et al.	
DN		US-3,706,651	12-30-1970	Leland	
		US-3,798,003	03-19-1974	Ensley et al.	
		US-3,968,885	07-13-1976	Hassan et al.	
		US-4,022,679	05-10-1977	Koziol et al.	
		US-4,030,015	10-20-1975	Herko et al.	
		US-4,072,557	02-07-1978	Schiel	
DN		US-4,082,638	04-04-1978	Jumer	
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		US-4,137,867	02-06-1979	Aigo	
		US-4,165,252	08-21-1979	Gibbs	
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DN		US-4,238,310	12-09-1980	Eckler et al.	
		US-4,246,088	01-20-1981	Murphy et al.	
		US-4,259,166	03-31-1981	Whitehurst	
		US-4,287,029	09-01-1981	KOUICHI SHIMAMURA	
		US-4,323,433	04-06-1982	DAVID M. LOCH	
		US-4,341,629	07-27-1982	Uhlinger	
DN		US-4,360,410	11-23-1982	Fletcher et al.	
		US-4,378,283	03-29-1983	MICHAEL SEYFFERT	
		US-4,391,694	07-05-1983	BENGT W. RUNSTEN	
		US-4,422,915	12-27-1983	Wielonski et al.	
		US-4,431,361	02-14-1984	Bayne	
		US-4,440,597	04-03-1984	Wells et al.	
DN		US-4,443,117	04-17-1984	Muramoto et al.	
Examiner Signature	Doral R. Valentine			Date Considered	12/30/04



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		Art Unit	1741		
		Examiner Name	W. T. Leader		
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DLV	US-4,449,885	05-22-1984	Hertel et al.
	US-4,451,197	05/1984	Lange
	US-4,463,503	08-07-1984	ROBERT D. APPELGATE
	US-4,466,864	08-21-1984	DUANE E. BACON
	US-4,469,566	09-04-1984	Wray
	US-4,475,823	10-09-1984	Stone
DLV	US-4,480,028	10-30-1984	Kato et al.
	US-4,495,153	01-22-1985	MINORU MIDORIKAWA
	US-4,529,480	07-16-1985	Trokhon
	US-4,541,895	09-17-1985	Albert
	US-4,576,685	03-18-1986	Goffredo et al.
DLV	US-4,585,539	04-29-1986	Edson
	US-4,604,177	08-05-1986	OLIVO G. SIVILOTTI
	US-4,604,178	08-05-1986	DALE R. FIEGENER
	US-4,639,028	01/1987	Olson
	US-4,670,126	06/1987	Messer et al.
	US-4,685,414	08-11-1987	DiRico
DLV	US-4,687,552	08-18-1987	Early et al.
	US-4,693,017	09-15-1987	Oehler et al.
	US-4,696,729	09-29-1987	Santini
	US-4,715,934	12-29-1987	Tamminen
	US-4,741,624	05-03-1988	Barroyer
	US-4,760,671	08-02-1988	WILLIAM R. WARD
	US-4,770,590	09/1988	Hugues et al.
DLV	US-4,800,818	01-31-1989	Kawaguchi et al.
	US-4,849,054	07-18-1989	Klowak
	US-4,858,539	08-22-1989	Schumann
	US-4,864,239	09-05-1989	Casarcia et al.
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	US-4,898,647	02/1990	Luce et al.
DLV	US-4,906,341	03-06-1990	KOJI YAMAKAWA
	US-4,913,035	08-02-1988	Vohringer et al.
	US-4,924,890	05-15-1990	Giles et al.
	US-4,944,650	07/1990	Matsumoto
	US-4,951,601	08-28-1990	Maydan et al.
	US-4,962,726	10-16-1990	Matsushita et al.
DLV	US-4,979,464	12-25-1990	Kunze-Concewitz et al.
	US-5,024,746	06-18-1991	Stierman et al.
	US-5,026,239	06-25-1991	Chiba
	US-5,048,589	09-17-1991	Cook et al.
	US-5,054,988	10-08-1991	Shiraiwa
DLV	US-5,055,036	10-08-1991	Asano et al.
	US-5,069,548	12-03-1991	Boehnlein
	US-5,078,852	01-07-1992	IAN Y.K. YEE
	US-5,083,364	01-28-1992	Olbrich et al.
	US-5,110,248	05-05-1992	Asano et al.
	US-5,125,784	06-30-1992	Asano
	US-5,128,912	07/1992	Hug et al.
DLV	US-5,138,973	08-18-1992	CECIL J. DAVIS

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		Art Unit	1741
		Examiner Name	W. T. Leader
Sheet	3	of	8
		Attorney Docket Number	291958158US

DN	US-5,146,136	09-08-1992	TOSHIO OGURA	
	US-5,155,336	10-13-1992	Gronet et al.	
	US-5,156,174	10-20-1992	RAYMON F. THOMPSON	
	US-5,168,886	12-08-1992	Thompson et al.	
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	US-5,168,887	12-08-1992	Thompson et al.	
DN	US-5,169,408	12-08-1992	Biggerstaff et al.	
	US-5,172,803	12-22-1992	Lewin	
	US-5,174,045	12-29-1992	Thompson et al.	
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	US-5,178,639	01-12-1993	Nishi	
	US-5,180,273	01-19-1993	Salaya et al.	
	US-5,183,377	02-02-1993	Becker et al.	
DN	US-5,186,594	02-16-1993	Toshima et al.	
	US-5,228,232	07-20-1993	RODNEY MILES	
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	US-5,230,371	07-27-1993	Lee	
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	US-5,235,995	08-17-1993	Bergman et al.	
	US-5,238,500	08-24-1993	Bergman	
DN	US-5,252,137	10-12-1993	Tateyama et al.	
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	US-5,256,262	10-26-1993	Blomsterberg	
	US-5,271,953	12-21-1993	Litteral	
	US-5,271,972	12-21-1993	Kwok et al.	
	US-5,301,700	04-12-1994	Kamikawa et al.	
DN	US-5,306,895	04-26-1994	Ushikoshi et al.	
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	US-5,316,642	05-31-1994	DAVID J. YOUNG	
	US-5,326,455	07/1994	Kubo et al.	
	US-5,330,604	07-19-1994	Allum et al.	
	US-5,332,271	07-26-1994	Grant et al.	
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DN	US-5,340,456	08-23-1994	Mehler	
	US-5,348,620	09-20-1994	Hermans et al.	
	US-5,364,504	11-15-1994	Smurkoski et al.	
	US-5,366,785	11-22-1994	Sawdai	
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	US-5,391,517	02-21-1995	Gelatos et al.	
DN	US-5,405,518	04-11-1995	Hsieh et al.	
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	US-5,431,803	07-11-1995	DiFranco et al.	
	US-5,437,777	08-01-1995	SHUJI KISHI	
DN	US-5,441,629	08-15-1995	Kosaki	

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Sheet	4	of	8	Attorney Docket Number	291958158US

DSW	US-5,442,416	08-15-1995	Tateyama et al.	
	US-5,443,707	08-22-1995	Mori	
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DSW	US-5,489,341	02-06-1996	Bergman et al.	
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	US-5,501,768	03-26-1996	Hermans et al.	
	US-5,508,095	04-16-1996	Allum et al.	
	US-5,512,319	04-30-1996	Cook et al.	
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	US-5,516,412	02-06-1996	Andricacos et al.	
DSW	US-5,522,975	06/1996	Andricacos et al.	
	US-5,527,390	06-18-1996	Ono et al.	
	US-5,544,421	08-13-1996	Thompson et al.	
	US-5,567,267	10-22-1996	Kazama et al.	
	US-5,571,325	11-05-1996	Ueyama et al.	
	US-5,575,611	11-19-1996	Thompson et al.	
	US-5,584,310	12-17-1996	ERIC J. BERGMAN	
	US-5,584,971	12-17-1996	Komino	
DSW	US-5,593,545	01-14-1997	Rugowski et al.	
	US-5,597,836	01-28-1997	Hackler et al.	
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	US-5,620,581	04-15-1997	Ang	
	US-5,639,206	06-17-1997	Oda et al.	
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DSW	US-5,650,082	07-22-1997	Anderson	
	US-5,651,823	07-29-1997	Parodi et al.	
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	US-5,660,472	08-26-1997	Peuse et al.	
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DSW	US-5,677,118	10-14-1997	Spara et al.	
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	US-5,731,678	03-24-1998	Zila et al.	
DSW	US-5,744,019	04-28-1998	Ang	
	US-5,746,565	05/1998	Tepolt	
	US-5,747,098	05-05-1998	Larson	
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	US-5,759,006	06/1998	Miyamoto et al.	
DSW	US-5,765,889	06/1998	Nam et al.	

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Sheet	5	of	8	Attorney Docket Number	291958158US

DN	US-5,776,327	07-07-1998	Botts et al.	
	US-5,788,829	08-04-1998	Joshi et al.	
	US-5,802,856	08-09-1998	Schaper et al.	
	US-5,829,791	11-03-1998	Kotsubo et al.	
	US-5,843,296	12-01-1998	Greespan	
	US-5,871,805	01-01-2001	JEROME LEMELSON	
DN	US-5,892,207	04-06-1999	Kawamura et al.	
	US-5,904,827	05-18-1999	Reynolds	
	US-5,925,227	07/1999	Kobayashi et al.	
	US-5,937,142	08-10-1999	Moslehi et al.	
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	US-5,998,123	12-07-1999	Tanaka et al.	
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DN	US-6,017,820	01-25-2000	Ting et al.	
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DN	US-6,080,691	06-27-2000	Lindsay et al.	
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	US-6,103,085	08-15-2000	Woo et al.	
	US-6,107,192	08-22-2000	Subrahmanyam et al.	
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DN	US-6,110,011	08-29-2000	SASSON SOMEKH	
	US-6,130,415	10-10-2000	Knoot	
	US-6,136,163	10-24-2000	ROBIN CHEUNG	
	US-6,139,703	10-31-2000	Hanson et al.	
	US-6,139,712	10-31-2000	EVAN E. PATTON	
	US-6,140,234	10-31-2000	Uzoh et al.	
DN	US-6,143,147	11-07-2000	Jelinek	
	US-6,143,155	01-01-2001	JOHN A. ADAMS	
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	US-6,168,695	01-02-2001	DANIEL J. WOODRUFF	
	US-6,174,425	01-16-2001	CINDY R. SIMPSON	
	US-6,174,796	01-16-2001	Takagi et al.	
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DN	US-6,218,097	04-17-2001	Bell et al.	
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Examiner Signature	<i>Donald R. Valentine</i>	Date Considered	12/30/04
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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete If Known	
				Application Number	09/872,151-Conf. #9156
				Filing Date	May 31, 2001
				First Named Inventor	Kyle M. Hanson
				Art Unit	1741
				Examiner Name	W. T. Leader
Sheet	6	of	8	Attorney Docket Number	291958158US

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	US-6,297,154	10-02-2001	Gross et al.	
	US-6,303,010	10-16-2001	Woodruff et al.	
DNV	US-6,309,520	10-30-2001	Woodruff et al.	
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	US-6,365,729	01-01-2001	Sanjay Tyagi	
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DNV	US-6,428,660	08-06-2002	Woodruff et al.	
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DNV	US-6,491,806	12-10-2002	Valery Dubin	
	US-6,497,801	12-24-2002	DANIEL J WOODRUFF	
	US-6,562,421	11-07-2002	Go Sudo	
	US-6,565,729	01-24-2002	Linlin Chen	
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DNV	US-6,599,412	07-29-2003	Lyndon Graham	
	US-6,623,609	09-27-2001	Randy Harris	
	US-6,632,334	12-05-2002	Timothy Anderson	
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	US-6,699,373	08-15-2002	Daniel Woodruff	
	US-6,709,562	01-01-2001	PANAYOTIS C. ANDRICACOS	
DNV	US-6,755,954	06-29-2004	Mayer et al.	
	US-60/428,055		McHugh	
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Examiner Initials*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code	Number* Kind Code* (if known)			
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		DE	195 25 666 //	10-02-1996	Huebsch et al.	
		DE	41 14 427 /	11-05-1992	Monitz, Heiko	
		EP	0 140 404 A1 /	08-16-1984	The Proctor & Gamble Co.	
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		EP	0 290 210 /	11-09-1988	Oki Electric Industry Co.	
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		EP	0 982 771 A1 /	08-17-1999	Lucent Technologies, Inc.	
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		EP	0290210 /	11-09-1988	Oki Electric Industry Co.	
		EP	0452939 B1 /	11-02-2000	Applied Materials, Inc.	
DNV		EP	0544311 B1 /	05-15-1996	Dainippon Screen Mfg. Co. Ltd	
Examiner Signature	Donald R. Valentine			Date Considered	12/30/04	



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Substitute for form 1449A/B/PTO		Complete if Known			
		Application Number	09/872,151-Conf. #9156		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Filing Date	May 31, 2001		
		First Named Inventor	Kyle M. Hanson		
		Art Unit	1741		
		Examiner Name	W. T. Leader		
Sheet	7	of	8	Attorney Docket Number	291958158US

<i>INV</i>	EP-0582019 B1	10-18-1995	Intl Business Machines	
	EP-1 069 213 A2	07-11-2000	Applied Materials Inc.	
	GB-2 254 288 A	03-24-1992	Scapa Group Pic	
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<i>INV</i>	GB-2217107A	03-23-1989	Canon Kabushiki Kaisha	
	JP-10-083960	03-31-1998	Takashi	
	JP-1048442	02-22-1989	Texas Instru Japan	
	JP-4144150	05-18-1992	Oki Electric Ind Co Ltd	
	JP-5146984	06-15-1993	Murata Mach Ltd.	
<i>INV</i>	JP-5211224	08-20-1993	Texan Instr Japan	
	WO-00/02675	01-02-2000	Semitool, Inc.	
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<i>INV</i>	WO-01/91163	11-29-2001	Semitool, Inc.	
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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Examiner Signature	<i>Donald R Valentine</i>		Date Considered 12/30/04



PTO/SB/08a/b (08-03)

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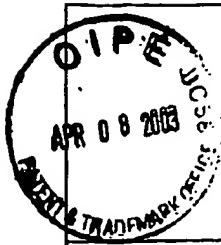
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				Application Number	09/872,151-Conf. #9156
				Filing Date	May 31, 2001
				First Named Inventor	Kyle M. Hanson
				Art Unit	1741
				Examiner Name	W. T. Leader
Sheet	8	of	8	Attorney Docket Number	291958158US

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*Applicant's unique citation designation number (optional). *Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	<i>Donald R. Valentini</i>	Date Considered	12/30/04
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
Form PTO-1449 (Modified)
(Use several sheets if necessary)

COMPLETE IF KNOWN

Application Number	09/872,151
Confirmation Number	9156
Filing Date	May 31, 2001
First Named Inventor	Kyle M. Hanson
Group Art Unit	1741
Examiner Name	Unknown
Attorney Docket No.	29195-8158US

Sheet 1 of 4

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Examiner Initials	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear
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		*4,566,847		Maeda et al.	01/28/86	
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Filing Date	May 31, 2001
First Named Inventor	Kyle M. Hanson
Group Art Unit	1741
Examiner Name	Unknown
Attorney Docket No.	29195-8158US

Sheet 2 of 4

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First Named Inventor	Kyle M. Hanson
Group Art Unit	1741
Examiner Name	Unknown
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Sheet 3 of 4

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DN	6,391,166	Wang	05/21/02	

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Application Number	09/872,151
Confirmation Number	9156
Filing Date	May 31, 2001
First Named Inventor	Kyle M. Hanson
Group Art Unit	1741
Examiner Name	Unknown
Attorney Docket No.	29195-8158US

Sheet 4 of 4

FOREIGN PATENT DOCUMENTS

Examiner Initial	Cite No.	Foreign Patent or Application		Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear	T
		Office	NUMBER					
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		WO	*00/02808		Semitool, Inc.	01/20/00		
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DM		WO	*02/097165		Semitool, Inc.	12/05/02		

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OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
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DM		RITTER, et al., "Two- Three- Dimensional Numerical Modeling of Copper Electroplating For Advanced ULSI Metallization," E-MRS Conference symposium M. Basic Models to Enhance Reliability, Strasbourg (FRANCE) 1999 (N. M.)	
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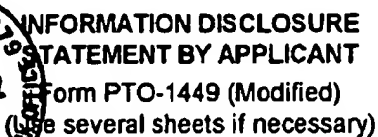
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		NUMBER	Kind Code (If known)			
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OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

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DRV		LEE, TIEN-YU TOM, "Application of a CFD Tool in Designing a Fountain Plating Cell for Uniform Bump Plating of Semiconductor Wafers," IEE Transactions on Components, Packaging, and Manufacturing Technology (February 1996), Vol. 19, No. 1, IEEE	

EXAMINER <i>Ronald R Valentine</i>	DATE CONSIDERED <i>12/30/04</i>
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**INFORMATION DISCLOSURE
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(use as many sheets as necessary)**COMPLETE IF KNOWN**

Application Number	09/872,151
Confirmation Number	9156
Filing Date	05/31/2001
First Named Inventor	Kyle M. Hanson et al.
Group Art Unit	1741
Examiner Name	
Attorney Docket No.	29195.8158US

Sheet

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of

U.S. PATENT DOCUMENTS

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